

resulting from the mixture of blue and red, whence is obtained a series of shades or colours, called the *cyanic series*.

10. The yellow colouring matter being capable of reddening by oxygenation, and also by acids (as in the yellowish juice of some cells of the leaves of red cabbage), yellow flowers may pass to red, and also present all the shades intervening between these colours; these colours constitute the *xanthic series*.

11. The red colour of the two series is far from being the same, not only as to its origin, but also as to the variations of tint which it may undergo. That of the *xanthic series* is less common in leaves than in flowers. The contrary is the rule for the red of the *cyanic series*.

12. The two kinds of red, like the two fundamental colours, are sometimes united in the same flower, which may then present every imaginable variety of colour. — *Bulletins de l'Acad. Royale de Bruxelles*, xx. pt. 1. p. 232.

METEOROLOGICAL OBSERVATIONS FOR FEB. 1854.

Chiswick.—February 1. Cloudy: rain. 2. Overcast: clear, with bright sun: frosty. 3. Frosty: dense fog. 4. Frosty: very fine: overcast. 5. Clear: cloudy. 6. Fine. 7. Cloudy: clear at night. 8. Clear: cold and dry: overcast. 9. Cloudy: rain. 10. Clear and frosty: cloudy and cold: clear. 11. Cloudy and fine: hazy. 12. Foggy: clear and fine. 13. Frosty: cold and dry: clear, with sharp frost at night. 14. Sharp frost: fine. 15. Overcast. 16. Cloudy: clear: overcast. 17. Cloudy. 18. Drifting snow: clear and cold: boisterous at night. 19. Clear and cold. 20. Overcast. 21. Clear and fine. 22. Fine: cloudy. 23. Clear. 24. Cloudy. 25, 26. Very clear. 27. Uniformly overcast: clear: overcast. 28. Fine.

Mean temperature of the month	37°·67
Mean temperature of February 1853	32·53
Mean temperature of Feb. for the last twenty-eight years ...	39·13
Average amount of rain in Feb.	1·57 inch.

Boston.—Feb. 1. Cloudy. 2—4. Fine. 5—9. Cloudy. 10. Fine: snow A.M. 11. Cloudy. 12. Fine. 13. Cloudy. 14. Fine. 15, 16. Cloudy. 17. Cloudy: rain P.M. 18. Cloudy: stormy. 19. Fine. 20. Cloudy: rain A.M. and P.M. 21. Fine. 22. Fine: rain P.M. 23—26. Fine. 27, 28. Cloudy.

Sandwick Manse, Orkney.—Feb. 1. Showers A.M.: clear P.M. 2. Showers A.M. and P.M. 3. Cloudy A.M.: cloudy, aurora P.M. 4. Cloudy A.M. and P.M. 5. Sleet-showers A.M.: showers P.M. 6. Showers A.M. and P.M. 7. Sleet-showers A.M.: hail-showers P.M. 8. Hail-showers A.M. and P.M. 9. Snow-showers A.M.: clear P.M. 10. Cloudy A.M. and P.M. 11. Drizzle A.M.: cloudy P.M. 12. Cloudy A.M. and P.M. 13, 14. Drizzle A.M. and P.M. 15. Hail-showers A.M. and P.M. 16. Drizzle A.M. and P.M. 17. Snow-showers A.M. and P.M. 18. Snow-showers A.M.: hail-showers P.M. 19. Cloudy A.M. and P.M. 20. Showers A.M.: clear P.M. 21. Bright A.M.: cloudy P.M. 22. Drizzle A.M.: showers P.M. 23. Snow-showers A.M.: hail-showers P.M. 24. Showers A.M.: showers, aurora P.M. 25. Showers A.M.: aurora P.M. 26. Cloudy A.M. and P.M. 27. Rain A.M. and P.M. 28. Sleet-showers A.M.: showers P.M.

Mean temperature of Feb. for twenty-seven previous years ...	38°·20
Mean temperature of this month	39·20
Mean temperature of Feb. 1853	33·74
Average quantity of rain in Feb. for thirteen previous years...	3·33 inches.